

L-1 SYNTH

Basic VCO – Parts list.

Items marked green are already installed or are included

Qty	Value	Package	Comments	Parts	Farnell code
IC's					
2	TL074	DIL14		IC3, IC4	1564329
1	TL072	DIL08		IC2	1106015
1	OPA2604	DIL08		IC1	1097431
1	THAT2180	SIP8		U1	1354167
Transistors					
2	2N3904	TO92	Matched preferable	T5, T6	1700648
1	2N3819	TO92		Q2	
1	LM4040-10	TO92		U2	1673984
Diodes					
2	1N4004	Through-hole	or 1N4007	D1, D2	1843708
1	1N4148	Through-hole		D3	1651088
Capacitors					
3	100p	1206	Ceramic	C3, C16, C17	1414704
1	220p	5mm	film	C4	1005983
1	100p	18mm	Polystyrene	C1	9520660
1	10n	18mm	Polystyrene	C2	9520414
9	0.1uF	1206	Ceramic, power decoupling caps	C5, C8, C9, C10, C11, C12, C13, C14, C15	1759361
2	22uF	2.5mm	electrolyth	C6, C7	9451498
Resistors					
2	10 Ohm or ferrite bead	0.25W through-hole		R1, R2	9339035
1	220	1206		R12	2078997
5	330	1206		R19, R24, R36, R39, R47	2078998
1	1K	1206		R48	2079001
3	2K	1206		R28, R29, R30	1469985
2	2K tempco	0805		R10, R11	1174317
1	3K3	1206		R54	9240977
1	3K6	1206		R53	1646735
2	3K9	1206		R6, R34	1100206
15	10K	1206		R3, R7, R8, R18, R20, R23, R25, R26, R32, R33, R37, R38, R44, R45, R46	2079007
1	15K	1206		R31	2079009
2	20K	1206		R5, R17	1469993
1	24K9	1206		R43	1469998
1	39K	1206		R55	2139553
1	49K9	1206		R27	2057780
1	75k	1206		R9	1100241
8	100K	1206		R4, R13, R15, R16, R21, R22, R40, R42	2079015
2	120K	1206		R41, R51	1100254

1	130K	1206		R49	1100248
1	300K	1206		R50	1100256
1	1M	1206		R52	2079022
1	2M	1206		R14	1506156
Trimpots					
1	100		V/OCT	T2	9353160
2	10K		OFSET, SAW	T1, T3	9353186
1	22K		SINE	T4	2328401
Potentiometers					
4	50K_lin	9mm PC mount	COARSE, FINE, FM, PW	P1, P2, P3, P4	Thonk VERTICAL: B50K Smallbear 1012A Tayda A-1858 Erthenvar
Switches					
1	VCO/LFO	SPDT on-on	Sub-miniature	S1	9473041 Smallbear 0222
Other					
1	Euro power connector			SV1	1928436
8	Jack 3,5mm	PC-mount	Erthenvar or Kobiconn		Farnell 1280747 Mouser Kobiconn 16PJ138 Thonk Thonkiconn Erthenvar Erthenvar
4	Spacer 12mm				1466845
4	Knobs 16mm		Synth pointer #2		Thonk KNOB_SynthTech Smallbear 0808D

Hex nuts and washers from Erthenvar:

<http://erthenvar.com/store/accessories/3.5mm-washers>

<http://erthenvar.com/store/accessories/3.5mm-hex-nuts>

Hex nuts and washers from Thonk:

<http://www.thonk.co.uk/shop/jack-nuts-and-washers/>